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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,608	12/02/2003	Hiroyuki Kometani	380-45	3708
23117	7590 12/13/2005	EXAMINER		
NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR			SERGENT, RABON A	
	N, VA 22203	LOOK	ART UNIT	PAPER NUMBER
			1711	

DATE MAILED: 12/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Summary	10/724,608	KOMETANI ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAN INC DATE of this accommission are	Rabon Sergent	1711			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 15 No.	ovember 2005.				
2a) This action is FINAL . 2b) ⊠ This	☐ This action is FINAL. 2b)☑ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 19-22 is/are pending in the application 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 19-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the option of the correction of the option of the op	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
	armior. Note the attached Office	Addition 101111 10-132.			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/973,747. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	(PTO-413) ate atent Application (PTO-152)			

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1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 15, 2005 has been entered.

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- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 19-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hagio et al. ('104) in view of Laas et al. ('044) and Nakamura et al. ('034) and Hannah et al. ('659).

Hagio et al. disclose the use of salts of cycloamidines, such as applicants' claimed DBU, DBN, and DBD, as catalysts for polyurethane compositions. Patentees further disclose that the aforementioned salts can be produced from the reaction of the aforementioned cycloamidines

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with unsaturated acids, such as crotonic acid, acrylic acid, and ricinoleic acid. See abstract; column 2; and column 3, lines 14-19.

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- 4. In addition to the teachings of Hagio et al, Nakamura et al. disclose at column 5, lines 1-40, especially lines 1-4, that salts of DBU were known catalysts for polyurethanes, and Laas et al. disclose at column 4, line 65 through column 5, line 13 that bicyclic amidines corresponding to those of applicants were known catalysts for polyurethane yielding coating compositions.

 Though the aforementioned references fail to specifically recite the use of the catalysts within two-component isocyanate based systems, the use of salts of DBU and DBN within such systems was known at the time of invention, as evidenced by Hannah et al. at column 4, line 65 through column 5, line 27. Furthermore, since the salt forms in a one to one ratio of catalyst to acid, applicants' claimed ratio limitations are considered to be satisfied.
- Therefore, in view of the aforementioned teachings, the position is taken that it would have been obvious to utilize salts derived from unsaturated acids and cyclic amidines, such as DBU, DBN, and DBD, in their art recognized capacity as catalysts for polyurethane and isocyanate based polymeric systems, and that it further would have been obvious to utilize the salts in virtually any type of polyurethane yielding system, including two-component systems. Lastly, the position is taken that the use of virtually any unsaturated acid to block the catalyst would have been obvious in view of the teachings of the references.
- 6. Applicants' response of November 15, 2005 has been considered; however, the response is insufficient to overcome the prior art rejection. The examiner appreciates applicants' detailed analysis of the prior art references; however, the examiner maintains that the cumulative teachings of the references serve to render obvious the use of the claimed acid blocked catalyst

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systems in virtually any polyisocyanate-active hydrogen polymerization reaction. The examiner

has considered applicants' examples; however, it is not seen that applicants have provided

showings commensurate in scope with the claims to rebut the prima facie case of obviousness.

In the instant case, the evidence of obviousness outweighs the evidence of non-obviousness.

One of ordinary skill in the art, in the course of routine experimentation, would have been able to

select suitable acid blocked catalysts yielding optimum results, in terms of such properties as

pot-life and viscosity increase.

Any inquiry concerning this communication should be directed to R. Sergent at telephone

number (571) 272-1079.

RABON SERGENT

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R. Sergent December 6, 2005